IN THE CLAIMS

This listing of claims replaces all prior listings.

1. (currently amended) A method in a data processing system having a program, the method comprising the steps of:

providing a plurality of in-memory processing engines, each processing engine subscribing to at least one of a plurality of datatypes and capable of publishing at least one of the datatypes, at least one of the processing engines subscribing to at least one of the datatypes published by another of the processing engines, the processing engines initiating processing responsive to receipt of a subscribed to datatype; ~~and~~

determining a solution to a problem by

a first processing engine subscribing to and receiving a first datatype, performing a first processing on a data associated with the first datatype, and publishing a first processing result as a second datatype, and

a second processing engine subscribing to and receiving the second datatype, performing a second processing on the processed data associated with the second datatype to determine the solution to the problem, and publishing the solution as a third datatype; and

modifying one of the first and second processing engines during the determining step, wherein the determining of the solution is not interrupted by the modification.

2. (canceled).

3. (original) The method of claim 1, further comprising the step of:

deploying a new processing engine, wherein the determining of the solution is not interrupted by the modification.

4. (canceled).

5. (currently amended) A ~~tangible~~ computer-readable storage medium containing instructions that cause a program in a data processing medium to perform a method comprising the

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steps of:

providing a plurality of in-memory processing engines, each processing engine subscribing to at least one of a plurality of datatypes and capable of publishing at least one of the datatypes, at least one of the processing engines subscribing to at least one of the datatypes published by another of the processing engines, the processing engines initiating processing responsive to receipt of a subscribed to datatype; ~~and~~

determining a solution to a problem by

a first processing engine subscribing to and receiving a first datatype, performing a first processing on a data associated with the first datatype, and publishing a first processing result as a second datatype, and

a second processing engine subscribing to and receiving the second datatype, performing a second processing on the processed data associated with the second datatype to determine the solution to the problem, and publishing the solution as a third datatype; and

modifying one of the first and second processing engines during the determining step, wherein the determining of the solution is not interrupted by the modification.

6. (canceled).

7. (currently amended) The computer-readable storage medium of claim 5, further comprising the step of:

deploying a new processing engine, wherein the determining of the solution is not interrupted by the modification.

8. (canceled).

9. (currently amended) A data processing system comprising:

a memory having a program that

provides a plurality of in-memory processing engines, each processing engine subscribing to at least one of a plurality of datatypes and capable of publishing at least one of the datatypes, at least one of the processing engines subscribing to at least one of the datatypes published

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by another of the processing engines, the processing engines initiating processing responsive to receipt of a subscribed to datatype, ~~and~~

determines a solution to a problem by

a first processing engine subscribing to and receiving a first datatype, performing a first processing on a data associated with the first datatype, and publishing a first processing result as a second datatype, and

a second processing engine subscribing to and receiving the second datatype, performing a second processing on the processed data associated with the second datatype to determine the solution to the problem, and publishing the solution as a third datatype, and

<u>modifyies one of the first and second processing engines during the determining step, wherein the determining of the solution is not interrupted by the modification</u>; and

a processing unit that runs the program.

10. (currently amended) A data processing system comprising:

means for providing a plurality of in-memory processing engines, each processing engine subscribing to at least one of a plurality of datatypes and capable of publishing at least one of the datatypes, at least one of the processing engines subscribing to at least one of the datatypes published by another of the processing engines, the processing engines initiating processing responsive to receipt of a subscribed to datatype; and

means for determining a solution to a problem by

a first processing engine subscribing to and receiving a first datatype, performing a first processing on a data associated with the first datatype, and publishing a first processing result as a second datatype, and

a second processing engine subscribing to and receiving the second datatype, performing a second processing on the processed data associated with the second datatype to determine the solution to the problem, and publishing the solution as a third datatype<u>; and</u>

<u>means for modifying one of the first and second processing engines during the determining step, wherein the determining of the solution is not interrupted by the modification.</u>